

# Claims

- [c1] An improved voltage to current converter circuit in CMOSFET technology comprising:
- first and second input terminals to receive input voltage signals;
  - an amplifying stage having first and second differential inputs connected to said first and second input terminals and first and second differential outputs;
  - current source means biased between first and second supply voltages comprising a first current source generating a current connected to said first differential output loaded by a first transistor, and second/third current sources respectively generating current and connected to said second differential output loaded by a second transistor, wherein said transistors are connected in a current mirror mode with a common node therebetween;
  - an output stage consisting of third and fourth transistors forming a half cascode current mirror having the drain of said third transistor connected to said second differential output and to the gate of the fourth transistor at a node forming the voltage to current converter circuit output terminal and having its gate connected to a bias voltage and;

– variable bias means consisting of a fifth transistor, the drain of which is coupled to the gate of said third transistor and the gate is coupled to said common node.

[c2] The improved voltage to current converter circuit of claim 1 wherein said voltage bias is obtained from of a current source with a resistor connected in series therewith.